



amd103\_en 05/15

# AMD-103

## WIRELESS MAGNETIC CONTACT

The AMD-103 magnetic contact can detect opening of a door, window, etc. It is designed for operation within the ABAX two-way wireless system. This manual applies to the detector with firmware version 2.00, which is supported by:

- ACU-120 / ACU-270 controller,
- ACU-100 / ACU-250 controller with firmware version 4.03 2014-05-15 (or newer),
- ARU-100 repeater with firmware version 2.00 2014-05-15 (or newer),
- INTEGRA 128-WRL control panel with firmware version 1.12 2013-12-20 (or newer).

### 1. Features

- LED indicator enabled in test mode.
- Tamper protection in 2 ways – cover removal and tearing enclosure from the wall.
- Battery status control.

### 2. Specifications

Operating frequency band .....	868.0 MHz ÷ 868.6 MHz
Radio communication range (in open area) .....	up to 350 m
Battery .....	CR2477N 3 V
Battery life expectancy .....	approx. 2 years
Standby current consumption .....	10 µA
Maximum current consumption .....	14 mA
Environmental class according to EN50130-5 .....	II
Operating temperature range .....	-10 °C...+55 °C
Maximum humidity .....	93±3%
Detector enclosure dimensions .....	32 x 45 x 20 mm
Magnet enclosure dimensions .....	11 x 45 x 10 mm
Weight .....	40 g

**Hereby, SATEL sp. z o.o., declares that this detector is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at [www.satel.eu/ce](http://www.satel.eu/ce)**

### 3. Description

Opening the reed switch contacts after removal of magnet, or opening the tamper contact, will trigger an alarm. Information on the alarm is sent by radio to the ACU-100 / ACU-250 / ACU-120 / ACU-270 controller or to INTEGRA 128-WRL control panel. The detector always remains in the active mode (all alarms are sent immediately).

Every 15 minutes, the detector sends a transmission with information on the current status of the reed switch, tamper contact and battery. Periodic transmissions are used to monitor presence and operation of the magnetic contact.

**Note:** *In the case of the AMD-103 magnetic contact, the presence check is performed in a different way than for the other ABAX system devices. If the value programmed for the FILTER parameter differs from 0, the lack of presence will be reported if no transmission from the detector is received within one hour.*

The LED is only working in the test mode:

- it is lit for 80 milliseconds, when the test transmission is being sent;
- it is lit for 2 seconds in the event of alarm.

The test mode is turned on for 20 minutes after inserting the batteries or opening the tamper contact.

The detector checks the battery status. When the voltage is lower than 2.6 V, the low-battery information is sent during each transmission.

## 4. Installation

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**There is a danger of battery explosion when using a different battery than recommended by the manufacturer, or handling the battery improperly.**

**Be particularly careful during installation and replacement of the battery. The manufacturer is not liable for the consequences of incorrect installation of the battery.**

**The used batteries must not be discarded, but should be disposed of in accordance with the existing rules for environment protection.**

The device is designed for indoor installation. The detector should be mounted on a fixed surface (e.g. window or door frame), and the magnet on a movable surface (e.g. window or door). Mounting the magnetic contact on ferromagnetic surfaces and/or near to strong magnetic and electrical fields is not advisable, because it can result in malfunctioning of the device.

Special designation on the detector enclosure indicates the side on which the magnets should be installed (Fig. 6).

1. Open the detector enclosure (Fig. 2).
2. Install the battery and add the device to the wireless system (see the ACU-100 / ACU-250 / ACU-120 / ACU-270 controller manual, installer manuals for INTEGRA 128-WRL or VERSA control panels).
3. Close the detector enclosure (the tamper contact must be pressed down by the base element).
4. Fasten the detector temporarily at the place of its future installation.
5. Move the magnet away from the detector. The detector will send information on the alarm, which will allow you to check the level of signal received from the detector by the ACU-100 / ACU-250 / ACU-120 / ACU-270 controller or the INTEGRA 128-WRL control panel. If necessary, select another place for installation, to ensure adequate communication quality.
6. Open the detector enclosure (Fig. 2).
7. Using wall plugs (screw anchors) and screws, fasten the enclosure base to the mounting surface (Fig. 3).
8. Close the detector enclosure (the tamper contact must be pressed down by the base element).

9. Press the catch and open the enclosure containing magnets (Fig. 4).
10. Using wall plugs (screw anchors) and screws, attach the magnet enclosure base to the mounting surface (Fig. 5). The distance between the detector enclosure and the magnet enclosure must not be greater than 20 mm (Fig. 6).
11. Replace the magnet enclosure cover.
12. Start the test mode and check whether the LED lights up after moving the magnet away (i.e. opening a window or door).



